



SA/ilm 07/25/06 131 declaration doc 3053311

Attorney Reference Number 3382-66130-01
Application Number 10/687,098

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Sloan et al.
Application No. 10/687,098
Filed: October 15, 2003
Confirmation No. 7230
For: BI-SCALE RADIANCE TRANSFER
Examiner: Kevin K. Xu
Art Unit: 2673
Attorney Reference No. 3382-66130-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

DECLARATION UNDER 37 C.F.R. §1.131

We, Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu, and Heung-Yeung Shum hereby declare as follows:

1. We are named as co-inventors on the above-referenced application, filed October 15, 2003. Microsoft Corporation is the assignee of the above-referenced application.

2. It is our understanding that pending claims 1-11 of the above-referenced application have been rejected by the U.S. Patent and Trademark Office for allegedly being obvious over a combination of references, including Christensen et al., "Ray Differentials and Multiresolution Geometry Caching for Distribution Ray Tracing in Complex Scenes," Eurographics 2003 (September 2003).

3. Prior to the September, 2003 publication date of Christensen *et al.*, we had conceived and reduced to practice the invention described and claimed in the subject application in this country, as evidenced by the following:

SAW:lem 07/25/06 131 declaration.doc 305383 01
PATENT

Attorney Reference Number 3382-66130-01
Application Number 10/687,098

4. On July 28, 2003, we (Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu) presented a paper entitled "Bi-Scale Radiance Transfer" (attached as Exhibit A), co-authored by all co-inventors of the above-reference patent application, at the SIGGRAPH 2003 conference in San Diego. (A listing of the conference's papers program on the SIGGRAPH web site showing our presentation is attached as Exhibit B.) This paper describes our Bi-Scale Radiance Transfer work upon which the above-referenced patent application was based. The Bi-Scale Radiance Transfer techniques described therein were reduced to practice prior to authoring this paper, as evidenced by the color images (Figures 1(c), 3, and 6) in the paper that were produced using the Bi-Scale Radiance Transfer techniques.

5. All statements made herein and of our own knowledge are true and all statements made on information are believed to be true; and further, these statements were made with the knowledge that willful false statements and like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statements made may jeopardize the validity of the application or any patent issuing thereon.

Date

Peter-Pike J. Sloan

Date

John M. Snyder

July 25, 2006
Date

Xinguo Liu
Xinguo Liu

Date

Heung-Yeung Shum

SAW:lem 07/24/06 131 declaration.doc 305383.01
PATENTAttorney Reference Number 3382-66130-01
Application Number 10/687,098

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Sloan et al.

Application No. 10/687,098

Filed: October 15, 2003

Confirmation No. 7230

For: BI-SCALE RADIANCE TRANSFER

Examiner: Kevin K. Xu

Art Unit: 2673

Attorney Reference No. 3382-66130-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

DECLARATION UNDER 37 C.F.R. §1.131

We, Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu, and Heung-Yeung Shum hereby declare as follows:

1. We are named as co-inventors on the above-referenced application, filed October 15, 2003. Microsoft Corporation is the assignee of the above-referenced application.

2. It is our understanding that pending claims 1-11 of the above-referenced application have been rejected by the U.S. Patent and Trademark Office for allegedly being obvious over a combination of references, including Christensen et al., "Ray Differentials and Multiresolution Geometry Caching for Distribution Ray Tracing in Complex Scenes," Eurographics 2003 (September 2003).

3. Prior to the September, 2003 publication date of Christensen *et al.*, we had conceived and reduced to practice the invention described and claimed in the subject application in this country, as evidenced by the following:


SAW:jcm 07/24/06 131 declaration.doc 305383.01
PATENT

Attorney Reference Number 3382-66130-01
Application Number 10/687,098

4. On July 28, 2003, we (Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu) presented a paper entitled "Bi-Scale Radiance Transfer" (attached as Exhibit A), co-authored by all co-inventors of the above-reference patent application, at the SIGGRAPH 2003 conference in San Diego. (A listing of the conference's papers program on the SIGGRAPH web site showing our presentation is attached as Exhibit B.) This paper describes our Bi-Scale Radiance Transfer work upon which the above-referenced patent application was based. The Bi-Scale Radiance Transfer techniques described therein were reduced to practice prior to authoring this paper, as evidenced by the color images (Figures 1(c), 3, and 6) in the paper that were produced using the Bi-Scale Radiance Transfer techniques.

5. All statements made herein and of our own knowledge are true and all statements made on information are believed to be true; and further, these statements were made with the knowledge that willful false statements and like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statements made may jeopardize the validity of the application or any patent issuing thereon.

7/24/06
Date


Peter-Pike J. Sloan

Date

John M. Snyder

Date

Xinguo Liu

Date

Heung-Yeung Shum



SW:lgm 06/29/06 131 declaration.doc 305383.01

Attorney Reference Number 3382-66130-01
Application Number 10/687,098

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sloan et al.

Application No. 10/687,098

Filed: October 15, 2003

Confirmation No. 7230

For: BI-SCALE RADIANCE TRANSFER

Examiner: Kevin K. Xu

Art Unit: 2673

Attorney Reference No. 3382-66130-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

DECLARATION UNDER 37 C.F.R. §1.131

We, Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu, and Heung-Yeung Shum hereby declare as follows:

1. We are named as co-inventors on the above-referenced application, filed October 15, 2003. Microsoft Corporation is the assignee of the above-referenced application.

2. It is our understanding that pending claims 1-11 of the above-referenced application have been rejected by the U.S. Patent and Trademark Office for allegedly being obvious over a combination of references, including Christensen et al., "Ray Differentials and Multiresolution Geometry Caching for Distribution Ray Tracing in Complex Scenes," Eurographics 2003 (September 2003).

3. Prior to the September, 2003 publication date of Christensen *et al.*, we had conceived and reduced to practice the invention described and claimed in the subject application in this country, as evidenced by the following:

SAW:cm 06/29/06 131 declaration.doc 305383.01
PATENTAttorney Reference Number 3382-66130-01
Application Number 10/687,098

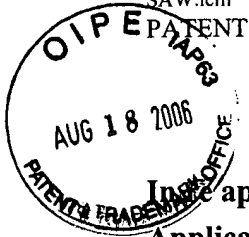
4. On July 28, 2003, we (Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu) presented a paper entitled "Bi-Scale Radiance Transfer" (attached as Exhibit A), co-authored by all co-inventors of the above-reference patent application, at the SIGGRAPH 2003 conference in San Diego. (A listing of the conference's papers program on the SIGGRAPH web site showing our presentation is attached as Exhibit B.) This paper describes our Bi-Scale Radiance Transfer work upon which the above-referenced patent application was based. The Bi-Scale Radiance Transfer techniques described therein were reduced to practice prior to authoring this paper, as evidenced by the color images (Figures 1(c), 3, and 6) in the paper that were produced using the Bi-Scale Radiance Transfer techniques.

5. All statements made herein and of our own knowledge are true and all statements made on information are believed to be true; and further, these statements were made with the knowledge that willful false statements and like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statements made may jeopardize the validity of the application or any patent issuing thereon.

Date_____
Peter-Pike J. Sloan_____
Date

6/29/2006

John M. Snyder_____
Date_____
Xinguo Liu_____
Date_____
Heung-Yeung Shum



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor application of: Sloan et al.

Application No. 10/687,098

Filed: October 15, 2003

Confirmation No. 7230

For: BI-SCALE RADIANCE TRANSFER

Examiner: Kevin K. Xu

Art Unit: 2673

Attorney Reference No. 3382-66130-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

DECLARATION UNDER 37 C.F.R. §1.131

We, Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu, and Heung-Yeung Shum hereby declare as follows:

1. We are named as co-inventors on the above-referenced application, filed October 15, 2003. Microsoft Corporation is the assignee of the above-referenced application.

2. It is our understanding that pending claims 1-11 of the above-referenced application have been rejected by the U.S. Patent and Trademark Office for allegedly being obvious over a combination of references, including Christensen et al., "Ray Differentials and Multiresolution Geometry Caching for Distribution Ray Tracing in Complex Scenes," Eurographics 2003 (September 2003).

3. Prior to the September, 2003 publication date of Christensen *et al.*, we had conceived and reduced to practice the invention described and claimed in the subject application in this country, as evidenced by the following:

Fax to: 503 228 9446

From: Henry Shum

To: Stephen Wight

The signed page only.

131 declaration 305383.01

Attorney Reference Number 3382-66130-01

Application Number 10/687,098

4. On July 28, 2003, we (Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu) presented a paper entitled "Bi-Scale Radiance Transfer" (attached as Exhibit A), co-authored by all co-inventors of the above-reference patent application, at the SIGGRAPH 2003 conference in San Diego. (A listing of the conference's papers program on the SIGGRAPH web site showing our presentation is attached as Exhibit B.) This paper describes our Bi-Scale Radiance Transfer work upon which the above-referenced patent application was based. The Bi-Scale Radiance Transfer techniques described therein were reduced to practice prior to authoring this paper, as evidenced by the color images (Figures 1(c), 3, and 6) in the paper that were produced using the Bi-Scale Radiance Transfer techniques.

5. All statements made herein and of our own knowledge are true and all statements made on information are believed to be true; and further, these statements were made with the knowledge that willful false statements and like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statements made may jeopardize the validity of the application or any patent issuing thereon.

Date

Peter-Pike J. Sloan

Date

John M. Snyder

Date

Xinguo Liu

8/14/2006

Date



Heung-Yeung Shum